

AMENDMENTS TO THE SPECIFICATION:

Please delete paragraphs [0056], [0059], [0060], [0063], [0065], [0067], [0111], [0112], [0125], [0130], [0134], [0135], [0136], [0137], [0140], [0149], [0163], [0164], [0171], [0175], [0178], [0180], [0183] and [0195], and replace with the following replacement paragraphs:

[0056] FIG. 1A is an isometric view of a ~~preferred embodiment~~ the present invention showing its use on a guitar amp input cable.

[0059] FIG. 2 is an isometric view of ~~another preferred~~ an alternate embodiment of the present invention showing spaced flat plate resonators.

[0060] FIG. 3A is an isometric view of ~~yet another preferred~~ an alternate embodiment of the present invention showing one support resonator and multiple movable resonators.

[0063] FIG. 4A is an isometric view of ~~another preferred~~ an alternate embodiment of the present invention showing a low frequency resonator with a midrange scaled movable resonator.

[0065] FIG. 5A is a side plan view of ~~yet another preferred~~ an alternate embodiment of the present invention showing its mounting on a cylindrical portion of a host.

[0067] FIG. 6 is a plan view of ~~another preferred~~ an alternate embodiment of the present invention showing the relative lengths of the resonant elements.

[0111] Descriptions of the preferred embodiments of the present invention are provided herein. It is to be understood, however, that the present invention may be embodied in various forms. Therefore, specific details disclosed herein are not to be interpreted as limiting, but rather as a basis for the claims and as a representative basis for teaching one skilled in the art to employ the present invention in virtually any appropriately detailed system, structure, or manner.

[0112] Referring now to FIG. 1A, a ~~preferred~~ a present embodiment 10 of a musically resonant apparatus with continuously variable resonances of the present invention is shown, two outer resonators 12, gripping surface 13, rod-shaped movable resonator 14, fastener A assembly 16, signal cable 18, signal cable plug 22, input jack 23, and tube guitar amplifier 24.

[0125] Referring now to FIG. 2, ~~a preferred~~ a second embodiment 40 of a musically resonant apparatus with continuously variable resonances of the present invention is shown, flat plate movable resonators 42A and 42B, and fastener B assembly 44.

[0130] Referring now to FIGS. 3A, 3B, and 3C, ~~another preferred~~ a third embodiment 50 of a musically resonant apparatus with continuously variable resonances of the present invention is shown, rod-shaped movable resonator 14, support resonator 52, and adjustable fastener 54.

[0134] Referring now to FIG. 4A, ~~another preferred~~ a fourth embodiment 60 of a musically resonant apparatus with continuously variable resonances of the present invention is shown, bar resonator 62, movable bar resonator 64, slot 65, and fastener C assembly 66.

[0135] With embodiment 60, a physically long, low frequency emphasizing apparatus with continuously variable upper bass and lower midrange harmonics can be realized. The length, thickness, and type of wood chosen for bar resonator 62 will determine the resultant fundamental frequency of resonance. In the same way, the length, thickness, and type of wood chosen for movable bar resonator 64 will determine the range and strengths of the harmonics contributed by movable bar resonator 64. Referring now to FIG. 4B, an alternate embodiment of this ~~preferred~~ fourth embodiment in FIG. 4A of a musically resonant apparatus with continuously variable resonances of the present invention is shown, second embodiment 40, bar resonator 62, fastener C assembly 66, wing nut 67, and T-slot 68.

[0136] Here is shown a T-slot 68 incised in bar resonator 62 as a continuously variable way of mounting ~~a preferred~~ the second embodiment 40 to bar resonator 62. In this way the upper harmonics contributed to a host component by embodiment 60 can be enhanced, and the mass contributed by embodiment 40 can be used to emphasize a user selectable harmonic of those generated by bar resonator 62 from transverse vibrations.

[0137] Referring now to FIGS. 5A and 5B, ~~another~~ a fifth embodiment 80 of a musically resonant apparatus with continuously variable resonances of the present invention is shown, fastener D assembly 81, means of spacing 82, slot 84, slotted crescent-shaped

movable resonator 86, crescent-shaped resonator 88, cylindrical portion of the host component 89.

[0140] Referring now to FIG. 6, ~~another preferred~~ a sixth embodiment 90 of a musically resonant apparatus with continuously variable resonances of the present invention is shown, insulated wire 91, resonance # 1 is defined by the compliance, mass, and length of insulated wire 91 from 92 to 94, resonance # 2 is defined by the mass of the knot 95 which is defined by its diameter and wire gauge, and resonance # 3 is defined by the compliance, mass, and length of insulated wire 91 from 96 to 98. Other elements include previous wire 101A, previous wire 101B, and solder joint 103.

[0149] The manner of use of the ~~preferred and alternate~~ embodiments of the present invention of FIGS. 1A, 1B, and 1C is similar to that of a weight or mass clamped onto a musical instrument, with exceptions. Embodiment 10 can be directly coupled to a host component or indirectly coupled to an intermediary that is directly coupled to the host component.

[0163] The manner of use of ~~preferred~~ embodiment 40 of the present invention is similar to that of embodiment 10. However, embodiment 40 is primarily designed to be gravity coupled, and thus it is placed on or in a host component. If use with several host components is not a factor, embodiment 40 can be permanently mounted. However, consideration should be made of the resonant contributions of the mounting technique.

[0164] The ~~preferred~~ embodiment 40 of the present invention is preferably scaled in size for emphasis in the middle harmonics, upper harmonics, or both. If scaled for bass emphasis, the size of this embodiment 40 would often be too large for ease of use. The number of flat plate movable resonators 42 can vary. Thinner stacks with fewer plates than as shown will be more suitable for higher midrange harmonic emphasis than will one with as many or more.

[0171] The manner of use of ~~preferred~~ embodiment 50 of the present invention is similar to that of embodiment 10. However, embodiment 50 is primarily designed to be gravity coupled, and thus it is placed on or in a host component. If use with several host

components is not a factor, embodiment 50 can be permanently mounted if consideration is made of the resonant contributions of the mounting technique.

[0175] The manner of use of preferred embodiment 60 of the present invention is similar to that of embodiment 10. However, embodiment 60 is primarily designed to be gravity coupled, and thus it is placed on or in a host component. If use with several host components is not a factor, embodiment 60 can be permanently mounted if consideration is made of the resonant contributions of the mounting technique. How the mounting technique changes the resonant contributions of embodiment 60 is also to be considered.

[0178] A T-slot 68 and preferred embodiment 40 will allow fine-tuning of the bass harmonic most in need of augmentation, and allow augmentation of the upper harmonics of the bass notes if needed.

[0180] The manner of use of preferred embodiment 80 of the present invention is to place it on a host component, and extend one or more slotted crescent shaped movable resonators 86 until the desired balance is obtained. By placing embodiment 80 at an area of unpleasant tubing resonance, the clamping action and the middle upper-frequency harmonic augmentation of embodiment 80 will improve the balance of the highest harmonics of many brass instruments. This will allow them to play louder without creating the unpleasant excess of these highest harmonics that is usually interpreted as distortion.

[0183] The manner of use of preferred embodiment 90 of the present invention is similar to that of embodiment 10. However, instead of being clamped onto a host component, it is to be soldered into one that is microphonic or vibrationally sensitive. Microphonic audio equipment and electric guitars respond well with this simple and inexpensive treatment that can be easily added without requiring major alterations.

[0195] Although the description above contains many specificities, these should not be construed as limiting the scope of the invention but as merely providing illustrations of some of the presently preferred embodiments of this invention. For example, the direction of the grain of the wood used in the preferred embodiments could be changed to some other direction than as given, a torsion or other stress could be used to move an

element of the apparatus for the purpose of continuously varying a resonance, and the cross sectional shapes of the apparatus' resonators as given can vary from half-circular, circular, and rectangular to hexagonal, triangular, oval, square, etc.